SANATAN DHARMA
COLLEGE HOSHIARPUR
DEPARTMENT OF COMPUTER APPLICATION

Contact: 01882-249968
Website: www.sdcollegehsp.net
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Class	Bachelor of Computer Application(4th Semester)
Subject Code and Name	Punjabi-A (BCA-16-401)
Time	45 min
Internal /External Marks	05/45

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Class	Bachelor in Computer Application (4th Sem.)
Subject Code and Name	Software Project Management(BCA-16-403)
Time	45 min
Internal /External Marks	10/65

Objectives: The objective of this course is to familiarize students with complete knowledge about the need for project management, role of projects mangers in organizational environments.

Unit No	Topics	Content
I	Concept of Project	In this students will be able to understand the concept of project, project management, project phases and product life cycles.
	Software Economics	The students will enable to understand software economics, software processes team effectiveness, automation through software environments, Principles of modern software management..
II	Working and design of system	The students will able to understand the concepts of Scope Management: project scope statement, Work breakdown structures, Scope verification and scope control, Process instrumentation and seven core metrics.

The students will be able to understand about Iterative process planning, Project organizations and responsibilities, Process automation. |
III	Introduction and objectives of software Specification	The students will be able to understand the concept Model based software architectures, Workflows of the process, Checkpoints of the process.
IV	Report Writing	The student will be able to report writing, importance and style of reports. Various Project management software tools are used.
References Books and Various web resources		
1	Books	Project Management, Tata McGraw Hill Publishing Company Limited, 1988
System Analysis and Design-Kalyani publisher
2	Web Recourses	Internet, Slide share
3.	Teaching Methods & techniques	PowerPoint, Group Discussion

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Class	Bachelor of Computer Application (4th Semester)
Subject Code and Name	Operating system concepts LINUX (BCA-16-404)
Time	45 min
Internal /External Marks	10/65

Objective: The objective of the course is to familiarize students with basic concepts related to operating system and its major duties like memory management, process management, resources management etc. Work comfortably in the LINUX environment, edit and manage files and user level security for UNIX development- use standard LINUX development tools for C or C++.

Unit No	Topics	Content
I	• Basic of operating system • Overview of UNIX/LINUX	In this first section we discuss the basic of Operating system, what are operating system, various types of operating system and what are various services and need of operating system We also start the concept of open source operating system named UNIX, history of Unix what is different between windows and Unix structure of Unix ,explain the concept of Kernel and shell
II	• Unix System	In this section we learn the various command comes under the Unix operating system like file handling command. Directory command, security command ,process management command ,Communication command and basic of shell programming
III	• Unix system Administration	In this section we learn how Unix operating system control the central network and various function of system administrator like entire step from booting the System to again shut down the system. Various step like user creation ,activities monitoring .Hardware installation, backup and restore, mounting and un-mounting
IV	• Shell Programming • AWK • Unix Networking	In this section we learn the concept of shell programming, how we write shell program, we also learn how we configure DNS, DHCP. Web server and Email Server

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		We also discuss Pattern search and Processing language like AWK
References Books and Various web resources		
1.	Teaching Methodology	Participative Teaching, collaborative teaching, Group discussion, Blackboard, presentations, teaching with examples.
2.	Books	Complete reference Unix Unix- Yashwant Kanetkar
3.	Web Recourses	slide share

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Class	Bachelor in Computer Application (4th Sem.)
Subject Code and Name	Database management System (BCA-16-405)
Time	45 min
Internal /External Marks	10/65

Objectives: The objective of this course is to familiarize students with complete

Unit No	Topics	Content
I	Database Concepts E-R Models	The students will able to understand file system approach vs. DBMS approach. • Database • Characteristics of database, • DBMS architecture • Data Independence • Keys • ER Model/diagram
II	Relational data models Normalization	The Learners will be able to know about concept of Database, database models The learners will be able to explain what is RDBMS, SQL, Normalization of database The students will be able to learn about various data types in oracle and will be able to create tables after applying normalization in SQL, enforce various integrity and referential keys, working of SELECT Statement
III	DDL Statements, DML statements, TCL statement, DCL statements.	The students will learn how to creating tables and will be able to rename, drop it etc. The students will also be able to alter the structure of table like adding new column, dropping column, table etc.
IV	SQL II, PL/SQL	The students will be able to differentiate between procedural and non-procedural languages and will be able to design procedural programs and use cursors in programs.

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References Books and Various web resources		
1	Books	DBMS: Korth, C.J. Date. Anusham Sharma, Kalyani publishers
2	Web Recourses	Internet, slideshare
3.	Methods, Approaches and Techniques	Power point Presentation , Practice on Computer

Unit Plans BCA(4th semester)
Subject : History and culture of Punjab(BCM201 B)
HISTORY AND CULTURE OF PUNJAB IN THE COLONIAL AND POST INDEPENDENCE TIMES
unit-1

Topics	Teaching Points	Specific objectives	Methods/Approaches Techniques	Resources/links
I. Introduction of Colonial Rule in Punjab: Annexation of Punjab; Board of Administration II. Western Education: Growth of Education and rise of middle classes III. Agrarian Development: Commercialization of agriculture; canalization and colonization.	➢ Introduce the students colonial rule of Punjab history. ➢ Achievement of the board of administration ➢ Western education and the rise of middle class ➢ Agrarian development and commercialization of agriculture specially canalization and colonization	➢ To provide students a broader meaning of history and specially colonial period of Punjab culture. ➢ To clear the motives behind the introduction of western education. ➢ To encourage the student to take part in open discussions regarding the area of their studies.	a. classroom teaching. b. open discussion. c. use of blackboard and PPT (PowerPoint presentation techniques). d. map of work. e. Library work.	● Singh,Kirpal :History and Culture of the Punjab, Part II(MedievalPeriod), Publication Bureau, Punjabi University, Patiala 1990(3rdedn.). ● Singh,Fauja(ed.) :History of the Punjab, Vol.III, Punjabi University, Patiala1972.

Unit-2

Topics	Teaching Points	Specific objectives	Methods/Approaches Techniques	Resources/links
IV Early Socio Religious Reform: Christian Missionaries; Namdharis; Nirankaris. **V** Socio Religious Reform Movements: activities of Arya Samaj; Singh sabhas; Ahmadiyas **VI**. Development of Press & literature: growth of print Technology; development in literature	➢ About the cultural development under the socio religious reform movements. ➢ Origin of Arya smaj and ahmadiyas movement and its special features . ➢ Cultural reorganization of Punjab specially growth of press and literature and its impact	➢ To provide a clear concept of socio religious reform movement ➢ To motivate the students to take part in open discussion in the class. ➢ Enable students to analyses the fact critical.	a. classroom teaching. b. library work. c. Assignment. d. Map work with the help of blackboard.	• Punjab History & Culture, C.L Aggarwal • Social and cultural History of the Punjab: Pre historic, Ancient and Medieval, J.S Grewal

Unit-3

Topics	Teaching Points	Specific objectives	Methods/Approaches Techniques	Resources/links
VII Emergence Of Political Consciousness: Agrarian uprising of 1907; Ghadar Movement. **VIII** Gurudwara Reform Movement: Jallianwala Bagh; foundation of SGPC and Akali Dal; Morchas. Activities of BabbarAkalis. **IX** Struggle for Freedom: activities of revolutionaries - Naujawan Bharat Sabha; KirtiKissan Movement; participation in mass movements, non co-operation, civil disobedience, Quit India.	➢ Regarding the political awakening and uprising of 1907. ➢ Institutional development of SGPC specially Akali dal and Babbar Akalis. ➢ Role of Punjab in Freedom struggle and specially Naujawan Bharat sabha, Kiriti Kissan movement and contribution of Punjabis in mass movements.	➢ Provide the students broader aspect of role of Punjab in freedom struggle. ➢ Motivate the student to take part in classroom discussion. ➢ comparative study of Punjab history and events of Indian history.	a. open discussion. b. Debate. c. Lectures. d. Library.	● Chopra, P.N.,Puri, B.N.:A Social, Cultural and Economic History of India,Vol.II, AndDas,M.N. Macmillan, delhi,1974.

Unit-4

Topics	Teaching Points	Specific objectives	Method/Approaches Techniques	Resources/links
X Partition and its Aftermath: resettlement; rehabilitation **XI** Social Concerns In Post Independence Punjab: language; immigration; socio-economic issues. **XII** MAP (Physical geographical map of undivided punjab): Major Historical places: Delhi, Kurukshetra, Jaito, Ferozepur, Ambala, Amritsar, Lahore, Ludhiana, Qadian, Jalandhar, Lyallpur,Montgomery. S.	➤ About the establishment of communal politics which lead to the partition. ➤ Society and Culture of Punjab under Post Independence Punjab specially the problem of rehabilitation and resettlement.	➤ To provide the student a broader aspects of Punjab history under pre and post partition period ➤ Comparison of the society of Punjab with other parts of India. ➤ Map work related with main sites of Punjab and centres of commerce and trade in modern period	a. open discussion. b. classroom discussion. c. Debate. d. map work use of blackboard. e. library work.	● Grewal,J.S. :The Sikhs of the Punjab, the New Cambridge History ofIndia, Orient Longman, Hyderabad, 1990. ● Singh,Khushwant :A History of the Sikhs, volI: 1469-1839, oxford University Press,. Delhi,1991.